

FCC COMPLIANCE STATEMENT

FOR UNITED STATES USERS

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le materiel brouilleur du Canada.

A NOTE CONCERNING RESPONSIBLE USE OF COPYRIGHTED MATERIALS

Like photocopiers, scanners can be misused by improper copying of copyrighted material. Although Section 107 of the U.S. Copyright Act of 1976 (Title 17, United States Code), the "fair use" doctrine, permits limited copying in certain circumstances, those circumstances may not be as broad as some people assume. Unless you have the advice of a knowledgeable attorney, be responsible and respectful by not scanning published material without the permission of the copyright holder.

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General Notice: Other product names used herein are for identification purposes only and may be trademarks of their respective owners. EPSON disclaims any and all rights in those marks.

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A COMPLETE SCANNING SOLUTION

The EPSON® Perfection™ 600 scanner comes with a combination of leading-edge applications that let you use your scanner in exciting new ways. (Not all the software listed is available for every system.)



EPSON Perfection 600 Driver by LaserSoft®

This exclusive professional-quality scanner driver has never been offered on a scanner in this class. Its powerful but flexible features let you obtain expert results quickly and easily. (An exclusive EPSON driver is available for Windows 3.1, which doesn't support the LaserSoft driver.)

Visioneer® PaperPort™

PaperPort is the leading document management software on the market today. It lets you organize, file, edit, copy, fax, and e-mail your paper-based information from one easy-to-use screen.

PaperPort has been modified to include Xerox[®] Imaging Systems TextBridge LE, the premier OCR (Optical Character Recognition) software.

Adobe® PhotoDeluxe™

Lets you edit your photos with professional results. You can improve image quality, add special effects, eliminate red eye, combine elements from several photos, add titles and captions, restore old photos, and add many other creative enhancements to your photographs.



Adobe PageMill™

Provides easy-to-use features that enable even the novice user to build professional-looking Web pages. You can use your scanned image as a logo, an image map, or an illustration or background pattern for a Web page. (PageMill is not available to Windows® 3.1 users.)

EarthLink® Network TotalAccess™

Combines an EarthLink Network access account with Netscape® Navigator™ and other great Internet tools to give you total access to the World Wide Web. When you subscribe to EarthLink Network, the setup fee is waived and you get 30 days free Internet access. (TotalAccess is not available to Windows NT users.)

Adobe Acrobat®

Adobe Acrobat® Reader

Allows you to share and read documents across platforms with the original formatting intact. You must install Acrobat Reader to read the online guides.

IMPORTANT SAFETY INSTRUCTIONS

Read all of these instructions and save them for later reference. Follow all warnings and instructions marked on the scanner.

- Unplug the scanner before cleaning. Clean with a damp cloth only. Do not spill liquid on the scanner.
- Do not place the scanner on an unstable surface or near a radiator or heat source.
- Do not block or cover the openings in the scanner's cabinet. Do not insert objects through the slots.
- Use only the type of power source indicated on the scanner's label.
- Connect all equipment to properly grounded power outlets. Avoid using outlets on the same circuit as photocopiers or air control systems that regularly switch on and off.
- Do not let the power cord become damaged or frayed.
- If you use an extension cord with the scanner, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- Do not attempt to service the scanner yourself.
 - Unplug the scanner and refer servicing to qualified service personnel under the following conditions:
 - If the power cord or plug is damaged; if liquid has entered the scanner; if the scanner has been dropped or the cabinet damaged; if the scanner does not operate normally or exhibits a distinct change in performance.

WHERE TO GET HELP

EPSON provides customer support through the following services:

ELECTRONIC SUPPORT SERVICES

Service	Access	
World Wide Web	From the Internet, you can reach EPSON's Home Page at http://www.epson.com.	
EPSON Internet FTP Site	If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto ftp.epson.com with the user name anonymous and your e-mail address as the password.	
EPSON Download Service	You can call the EPSON Download Service at (800) 442-2007. Set your communications software to 8 data bits, 1 stop bit, no parity. Modem speed can be up to 28.8 Kbps.	
EPSON Forum on CompuServe®	Members of CompuServe can type GO EPSON at the menu prompt to reach the Epson America Forum. For a free introductory CompuServe membership, call (800) 848-8199 and ask for representative #529.	

AUTOMATED TELEPHONE SERVICES

Service	Access	
EPSON SoundAdvice™	For pre-recorded answers to commonly asked questions about EPSON products 24 hours a day, seven days a week, call (800) 442-2110.	
EPSON FaxAdvice [™]	Access EPSON's technical information library by calling (800) 442-2110. You must provide a return fax number to use this service.	
EPSON Referral Service	For the location of your nearest Authorized EPSON Reseller or Customer Care Center, call (800) 442-2110.	

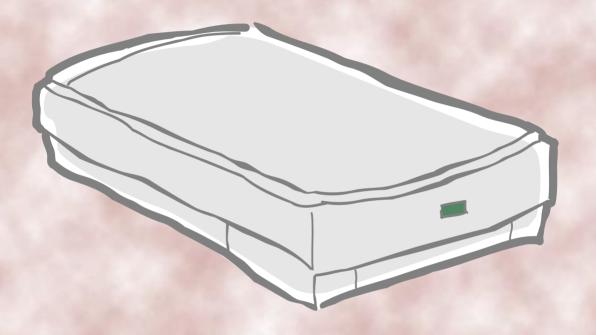
TELEPHONE SUPPORT

EPSON also provides technical support and information on the installation, configuration, and operation of EPSON products. Dial (800) 922-8911, (310) 782-2600 (U.S.), or (905) 709-9475 (Canada), 6 A.M. to 6 P.M., Pacific Time, Monday through Friday.

Before you call, please have the following information ready:

- Product name
- Product serial number
- Computer configuration
- Description of the problem

You can purchase ink cartridges, paper, manuals, accessories, and parts from EPSON Accessories at (800) 873-7766 (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.



SETTING UP YOUR SCANNER

UNPACK YOUR SCANNER

Remove the scanner from the box, then remove the packing material from your scanner. Save the packaging in case you need it later.

Choose A Good Place For Your Scanner

Here are some points to consider:

- Place the scanner on a flat, stable surface. If the scanner is tilted, it can't operate properly.
- Make sure to place the scanner where you can easily unplug the power cord, and where the SCSI cable can reach your computer.
- Be sure there's enough room behind the scanner for the cables, and above the scanner so you can fully raise the document cover, if necessary.
- Keep the scanner away from direct sunlight and strong light sources.
- Avoid places subject to shocks and vibrations, or high temperatures and humidity.

INSTALL THE SCSI INTERFACE BOARD (PC ONLY)

You must install your SCSI board and SCSI software before installing the scanner driver and software applications.

If you have a Macintosh or if you already have a SCSI board installed in your PC, skip this section.

Note:



For additional information, see the Installation Guide that came with your SCSI board.

- 1. Turn off the computer and any peripheral devices. Unplug any power cords; then disconnect all cables from the back panel of your computer.
- 2. Remove the cover from your computer.



Caution:

Ground yourself before you touch any of the computer's internal components by touching an unpainted metal surface inside the computer case.

3. Insert the interface board into an empty 16-bit ISA expansion slot; then secure it with the retaining screw.

4. Replace the computer cover and reconnect all cables.

5. If you're installing the optional transparency unit, go to "Install the Optional Transparency Unit" on page 18.



1. Remove the document cover and turn the carriage lock to the unlock position (away from the document table).

2. Reinstall the document cover as described on page 28. (If you purchased the optional transparency unit, install it now. Follow the instructions in "Install the Optional Transparency Unit" on page 18.)



Caution:

Always lock the scanner carriage before transporting it; otherwise, the scanner may be damaged. Be sure the scanner lamp is in the home position; to ensure this, always turn off the scanner before locking the carriage.

home position

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SET THE SCSI ID NUMBER

The scanner is preset at the factory to SCSI ID 5. If you need to change this number, use the tip of a small screwdriver to turn the rotary switch on the back panel. Be sure to choose a unique number that doesn't conflict with the ID number of other SCSI devices (including the SCSI interface board).



Don't use SCSI ID 8 or 9 for your scanner. These are for factory use only.



SCSI terminator

SCSI connector

CONNECT THE SCANNER TO YOUR COMPUTER

Caution:

Make sure both the scanner and computer are turned off.

- Locate the connector cable that came with your scanner.
 Connect one end to either SCSI connector on the back of
 the scanner and tighten the screws to secure it. Then connect
 the other end to the SCSI port on your computer or other
 SCSI device in the chain.
- 2. Locate the SCSI terminator. If the scanner is the only SCSI device you connect to your computer or if it's the last device in the SCSI chain, you must insert the SCSI terminator into the empty SCSI connector on the back panel of the scanner. (This step is not required if you've connected your scanner in the middle of a SCSI chain.)
- 3. Connect the power cable to the scanner.
- 4. Plug in the power cables for your computer, scanner, and other external SCSI devices.







INSTALL THE SCSI SOFTWARE (PC ONLY)

The EPSON Perfection 600 CD-ROM for Windows 95 and Windows NT includes the Windows 95 and Windows NT drivers for your SCSI board. The EPSON Perfection 600 CD-ROM for Windows 3.1 includes Adaptec EZ-SCSI™ Lite, which installs your Windows 3.1 SCSI driver. You need to install the SCSI software for your system before you can use your scanner.

Note:



Your scanner also comes with a bootable diskette that contains SCSISelect, a SCSI configuration utility for Windows 3.1, Windows 95, and Windows NT. You only need to use this utility if you have problems with your SCSI board. See page 41 if necessary.

If you're running Windows 95...

- 1. Turn on your scanner first; then turn on your computer. A screen appears saying that your system has detected new hardware and asking you to install the driver (sparrow.mpd). If Windows doesn't ask for the driver, you've already installed it with another SCSI device. Skip to step 5.
- Insert the EPSON Perfection 600 CD-ROM for Windows 95 and Windows NT in your CD-ROM drive. (If the EPSON Perfection 600 installation program launches, click Exit.)
- 3. Click **Browse** and change to your CD-ROM drive. The SCSI driver installs automatically.
- 4. When installation is complete, turn off your computer. (Select **Shut Down** from the Start menu, then select the option that shuts down the computer.) After a few seconds, turn it on again.
 - Windows 95 tells you that an unknown device has been found. This indicates your scanner has been detected. Windows may ask you if you want to install a driver. Select "Do not install a driver" and click **OK**.
 - If you have a newer version of Windows 95, you will be guided through a device driver setup wizard. Click **Next** on the first screen, and then click **Finish**.
- 5. Install the rest of the EPSON Perfection 600 software as described on page 13.

If you're running Windows 3.1...

EZ-SCSI Lite installs your Windows 3.1 SCSI driver.

- 1. Turn on your scanner first; then turn on your computer.
- 2. Insert the EPSON Perfection 600 CD-ROM for Windows 3.1 in your CD-ROM drive.
- 3. From Program Manager, open the File menu and choose **Run**. The Run dialog box appears.
- 4. Type **D:\ezscsi\setup** (if another letter is assigned to your CD-ROM drive, enter that letter instead of **D**:) and click **OK**. After a few moments, the Adaptec Setup Wizard appears.
- 5. Follow the instructions on the screen. (The default settings are generally best.)
- 6. When installation is complete, exit Windows and turn off your computer. After a few seconds, turn it on again. Setup creates a program group called Adaptec SCSI.
- 7. Run the SCSI Interrogator in the Adaptec SCSI program group to make sure your system recognizes the SCSI board.
- 8. Install the rest of the EPSON Perfection 600 software as described on page 13.

If you're running Windows NT 4.0...

- Turn on your scanner first, then turn on your computer. Insert your EPSON Perfection 600 CD-ROM for Windows 95 and Windows NT in your CD-ROM drive.
- 2. Go to the Windows Control Panel and double-click SCSI Adapters.
- 3. Click Add on the Drivers tab. A screen appears listing SCSI driver manufacturers.
- 4. Select **Adaptec** in the Manufacturers listbox, then double-click **AHA-152X/AHA-1510 SCSI Host Adapter** in the Drivers listbox.
- 5. Click **OK**. A screen appears prompting you for the driver path.
- 6. Enter the drive letter assigned to your CD-ROM drive (for example, **D**:). Then use the Browse function to enter the rest of the path (\sparrow\sparrow.sys). Click **OK**.
- 7. Turn off your computer. After a few seconds, turn it on again.
- 8. Install the rest of the EPSON Perfection 600 software, as described on page 13.

INSTALL THE EPSON SCANNER DRIVER AND SOFTWARE APPLICATIONS

The Windows 95 and Windows NT 4.0 software are combined on one CD-ROM. Windows 3.1 and Macintosh software are on separate CD-ROMs.

The application software bundled with your scanner varies depending on the operating system. You can view the manuals that come with your software by clicking the **View Manuals** button at the bottom of the installer screen.



Note:

Adobe Acrobat Reader must be installed before you can view a manual. Acrobat Reader is bundled with your scanner software.

Before you begin, make sure your SCSI board and SCSI driver are installed, and your scanner is attached to the computer and turned on. Also, check the CD label to make sure you have the correct CD-ROM for your operating system.

If you're running Windows 95 or Windows NT 4.0...

Follow these steps to install the software:

1. Start Windows and then insert the EPSON Perfection 600 CD-ROM for Windows 95 and Windows NT into your drive. The installer screen appears.



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Addoor* Recorded.** Reader 1.8.1

Windows 95

Windows NT



If the screen doesn't appear, click **Start** and **Run**. At the prompt, type **D:\setup.** (if your CD-ROM drive uses a different drive letter, use it instead); then click **OK**.

2. If you're using Windows 95, make sure the applications you want to install are highlighted. Click to deselect a program if you don't want to install it (the red box turns gray).

Click the **Install** button to install the selected software.

If you're using Windows NT, click the button for the software you want to install. After each installation, your system returns to the installer screen.

You must install the EPSON Perfection 600 scanner driver before you use your scanner.

Note:



- If you're running Windows 95, the EPSON Copy and Scanner Test utilities are automatically loaded onto your hard drive. To run these utilities, click **Start** and point to Programs. Choose **Perfection 600_32**, then click either **EPSON Copy Utility** or **Scanner Test**.
- ▶ The Windows NT version of Perfection 600 does not include the Copy and Scanner Test utilities.

After installing your software, you will be prompted to restart your system.



If you're running Windows 3.1...

Follow these steps to install your scanner driver and application software. Make sure you've already installed EZ-SCSI Lite, as described on page 12.

- 1. Start Windows and then insert the EPSON Perfection 600 CD-ROM for Windows 3.1 in your CD-ROM drive.
- 2. From the File menu, select Run. Then type D:\setup (if your CD-ROM drive uses a different drive letter, use it instead) and click OK. The scanner driver launches, and you see the installer screen.
- 3. Click **Install** to install your scanner driver, then follow the instructions on the screen.
 - If you're performing a complete installation, finish installing your scanner driver before you install any applications. Once the driver installs, you'll be prompted to restart Windows.
- 4. After Windows restarts, start the installation program again (repeat step 2).
- 5. From the installer screen, click the titles of the applications you want to install, then click **Install**. The selected programs install, one after another.

Note:

- Not
 - You can skip the installation of a selected program at any time by clicking the **Skip** button at the bottom of the installer window.
 - The EPSON Copy and Scanner Test utilities are automatically loaded onto your hard drive. To run these utilities, open the Perfection 600 program group and double-click the Copy Utility or Scanner Test icon.
 - You will need to enter a serial number when you install Adobe PhotoDeluxe; this number is printed on the CD envelope that came with your scanner.

After installing your software, you will be prompted to restart your system.

If you're using a Macintosh...

Follow these steps to install your scanner driver and software applications:

- Insert the EPSON Perfection 600 CD-ROM for Macintosh® into your CD-ROM drive. Then double-click the EPSON Perfection 600 Installer icon. The installer screen appears.
- 2. Make sure the applications you want to install are highlighted. Click to deselect a program if you don't want to install it (the red box turns gray).
- 3. Click the **Install** button and follow the instructions on the screen. The scanner driver software is copied to the EPSON Perfection 600 folder on your hard drive. (You can skip the installation of a selected program at any time by clicking the **Skip** button at the bottom of the installer window.)
- 4. When installation is complete, restart your computer.
- 5. If you need to install Acrobat Reader, restart the EPSON Perfection 600 installation program. Click **View Manuals** to go to the View Manuals screen, then click **Install Acrobat Reader**.

After installing your software, you will need to copy the **Perfection600** scanner driver plug-in folder to the appropriate plug-ins folder for your host application. (To copy, hold down the Option key while dragging the driver plug-in.) See the documentation for your application for details.

Note:

- The Copy utility is copied to the EPSON Copy Utility folder on your hard drive.
- You will need to enter a serial number when you install Adobe PhotoDeluxe; this number is printed on the CD envelope that came with your scanner.
- The first time you launch Visioneer PaperPort, you will need to enter the serial number; this number is printed on the CD envelope that came with your scanner.
- Visioneer PaperPort does not require that you copy the Perfection600 scanner driver plug-in to its plug-ins folder.

POWER-ON SEQUENCE

Always turn your scanner on before you turn on your computer. Otherwise, your scanner driver may not recognize your EPSON scanner.

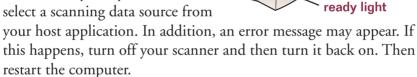


Note:

The ready light on the front of the scanner blinks as the scanner head initializes. If your driver fails to

recognize the scanner, you won't see the EPSON Perfection 600 driver when you try to

select a scanning data source from



TEST THE CONNECTION

Now you're ready to test the connection between your scanner and computer.

Follow these steps:

1. Start the Scanner Test.

For Windows 95, click **Start** and point to **Programs**, Perfection 600 32, then click Scanner Test.

For Windows 3.1, open Program Manager, then double-click the **Scanner Test** icon in the EPSON Perfection 600 program group.



The Windows NT and Macintosh versions of EPSON Perfection 600 do not have a Scanner Test utility.

power

switch

2. Click the **Test** button. The Test Scan dialog box appears.



The default scan method is Reflective. If you have an optional transparency unit attached to the scanner, you can test its operation.

3. Click the **Scan** button.

When the test is complete, you'll either see a message saying the scan was successful, or you'll see an error message. If you see an error message, go to "Problems? Need Help?" on page 39.

INSTALL THE OPTIONAL TRANSPARENCY UNIT

Caution:

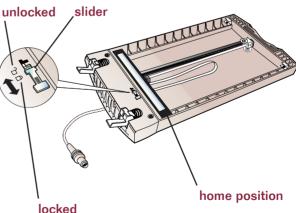
Before you begin, make sure the scanner is turned off and the scanner's power cord is disconnected.

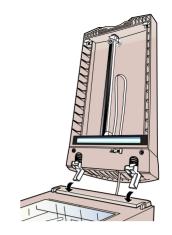
1. If you haven't already removed the document cover from the scanner, do so now. unlocked slider

on page 9.

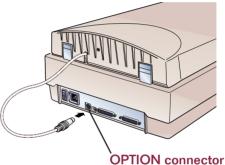
2. Make sure the optical assembly on the transparency unit is unlocked. (Push down to move the slider to the unlock symbol.) The optical assembly should be in the home position.

Follow the instructions



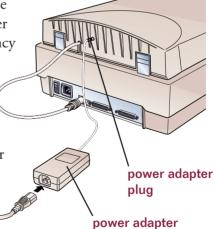


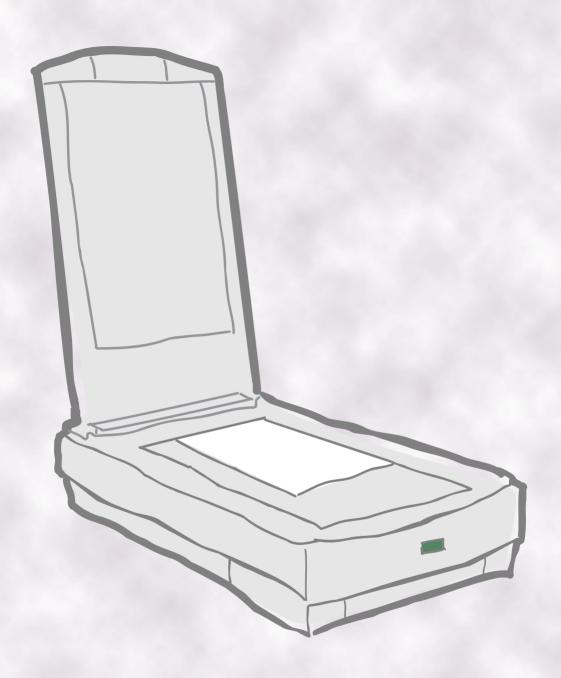
- 3. Insert the hinge brackets on the transparency unit into the slots at the back of the scanner.
- 4. Insert the end of the cable attached to the transparency unit into the **OPTION** connector on the back of the scanner.



- 5. Locate the power adapter that came with the transparency unit. Carefully insert the power adapter plug into the back of the transparency unit.
- 6. Connect the power cord to the power adapter, and then plug the other end of the power cord into a wall outlet.

If you haven't connected the scanner to your computer, continue with "Connect the Scanner to Your Computer" on page 10.





SCANNER BASICS

This section shows you how to get started with your EPSON Perfection 600—how to perform your first scan, and how to use Acrobat Reader to read your online manuals when you need more information. You'll also find basic maintenance procedures.

Before you can scan an image, you must install the EPSON Perfection 600 driver. See "Install the EPSON Scanner Driver and Software Applications" on page 13 for instructions.



Note:

The illustrations in this section show screens and controls for the EPSON Perfection 600 scanner driver by LaserSoft. If you're running Windows 3.1, your screens and controls will differ slightly. See your online *EPSON Perfection 600 Driver User's Guide* for details.

PERFORM YOUR FIRST SCAN

Now you're ready to scan. First, choose an image. When selecting an image or text to scan, respect the rights of the copyright holders.

Note:

For more detailed scanning instructions, see your online *EPSON Perfection 600 Driver User's Guide*.

Placing Your Original Document

- 1. Raise the scanner cover and place the document face down on the document table. If you're scanning a transparency, the optional transparency unit should be installed.
- 2. Position the document so the horizontal and vertical edges are carefully aligned with the scales on the top and left-hand side of the document table.
- Close the document cover slowly. Be careful not to move the document.

Beginning Your Scan

Scans are always performed from within a host application (the application into which you plan to import the scanned image or document). You have to start this application before you can access your scanner software.

If you're running Windows, your scanner software is compatible with most TWAIN-compliant programs. If you're using a Macintosh, your software is compatible with applications that support plug-in modules.

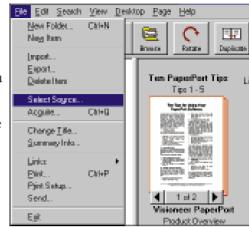


- Start the host application (for example, Visioneer PaperPort).
- 2. Select your scanner software. (Unless you change your source, you only need to do this step once.)

For example, from PaperPort choose **Select Source** from the File menu. Highlight Perfection 600 (32 Bit) from the Select Source list and click Select.

If you're running Windows 3.1, select EPSON Perfection 600 as your source.

this icon with PaperPort.



Note:

If you're running any application but PaperPort on your Macintosh, choose Acquire from the host application's File menu, then select Perfection600 from the cascading

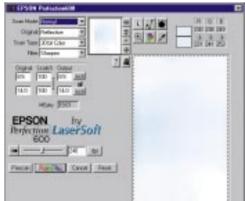
If you have a Macintosh, choose **Select Source** from PaperPort's File menu. Make sure the **Perfection600** icon is highlighted, then click **OK**. Only use

menu. If you don't see Perfection600 in the menu, make sure you copied the Perfection 600 plug-in module from the EPSON Perfection 600 folder to the plug-ins folder for your application. (You don't need to copy this module to PaperPort's Plug-ins folder.) The scanner software automatically opens, so you can skip step 3.

3. Open the scanner software.

For example, choose **Acquire** from PaperPort's File menu, or click the **Scan** button on the PaperPort toolbar.

The EPSON Perfection 600 main window appears.



Vicionaer PaparPort LE

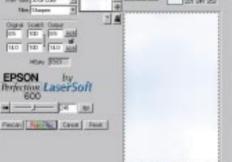
Sean

Page

Search Mew Decktop Page

First

Decrease



Completing Your Scan

Make the appropriate selections for your scan.
 Here are some recommended settings for different types of scans.

Image Type	Resolution	RECOMMENDED TOOLS
Color Photo	240 dpi	Sharpen
Magazine\Printed Image	240 dpi	Descreen
OCR	300 dpi	
Line Art	600 dpi	
Blurry Image	240 dpi	Sharpen

If you're scanning a transparency, be sure to select **Transparency** in the Original drop-down list box. (In the Windows 3.1 driver, this option is called **Transparentive**.) You must install the optional transparency unit first.

2. Click the **Prescan** button to preview your scan.

You see a preview of your scan in the Prescan area to the right.



3. Make any changes you want to adjust the image, then click the **Scan** button. See your online driver manual for more information.

The ready light on the front of the scanner blinks for several seconds while it's scanning. In a few moments, the scanned image is imported into your host application's window. (You may have to close the Perfection 600 main window to get it out of the way.)

If the ready light continues to blink, it may indicate an error condition. See "Problems? Need Help?" on page 39 for more information.

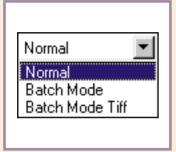
Note:



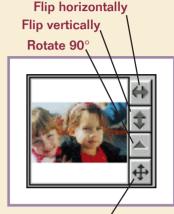
- Don't leave photographs on the document table for long periods of time; they may stick to the glass.
- Don't leave transparencies on the document table for long periods; the warmth of the scanner may cause them to deteriorate.

POWER SCANNING—NEW TOOLS THAT GIVE YOU GREAT RESULTS

Your EPSON Perfection 600 has some extra tools that aren't available to any other scanner in its price range. (Some of these tools, like batch scanning and image rotation, aren't available on the Windows 3.1 driver.)







AutoExposure

Toggle between pixel zoom and orientation view

For example, a powerful batch scanning function lets you scan multiple images at the same time with a single click of the mouse. You can scan different types of images, use different settings for each scan, import your scans directly into your host application, or save your scans automatically to your hard disk.

Note:

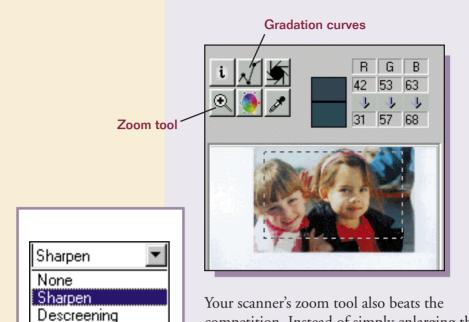
Batch Mode scanning is not available with Adobe PhotoDeluxe; however, you can still scan multiple images using the Batch Mode Tiff option.

AutoExposure, a sophisticated image adjustment tool, automatically adjusts your image for the best contrast possible while removing any color cast (distinctive overall color) that the image might have.

You can rotate images in 90° increments before you scan, eliminating the need to rotate an image later in your graphics application. You can also flip the image horizontally or vertically. (Use the toggle tool to see your image in the orientation view window.)

tools that give





Powerful descreening and sharpening filters give you the kind of results you'd expect from a much more expensive scanner.

Note:

These functions are not available if you choose Line Art as the scan type.

competition. Instead of simply enlarging the pixels on an existing preview image, it creates a

new preview that captures more detail.

Special slider controls in the Gradation Curves dialog box let you make exact adjustments to your image's tone curves (highlight, shadow, and midtone) quickly and easily.

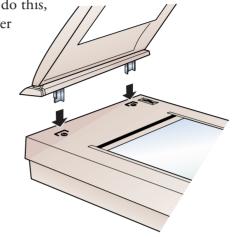
results

IF YOU'RE SCANNING SOMETHING THAT DOESN'T FIT UNDER THE DOCUMENT COVER

You can remove the document cover. To do this, simply lift the back of the document cover straight up.

When scanning with the cover removed, make sure you cover any exposed areas of the document table to prevent interference from external light.

Reattach the document cover as shown. Be sure to hold the cover in a vertical position as you push its attachments into place.

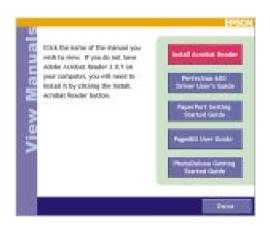


ONLINE USER'S GUIDE

You always have easy access to your online *EPSON Perfection 600 Driver User's Guide*—just go to the installer screen on your EPSON

Perfection 600 CD-ROM and click the **View Manuals** button. You access the online guides for Visioneer PaperPort, Adobe

PhotoDeluxe, and Adobe PageMill the same way.



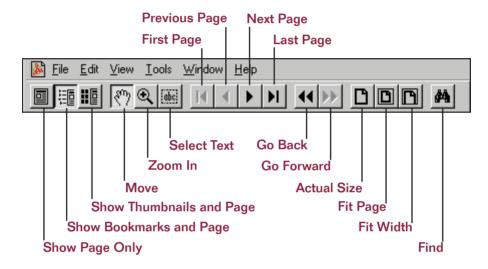
Note:

- You must install Adobe Acrobat Reader before you can read the online manuals. You can install it from the View Manuals screen in your scanner driver installation program.
- Windows 3.1 does not support Adobe PageMill. Also, Visioneer PaperPort for Windows 3.1 does not provide an online manual.

Using Adobe Acrobat Reader

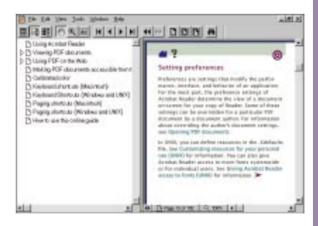
Here are some quick guidelines for using Acrobat Reader. If you need more information, see your Acrobat Reader online guide.

When you open an online guide, you'll see this toolbar at the top of your screen.



With Acrobat Reader, you have several ways to navigate through text.

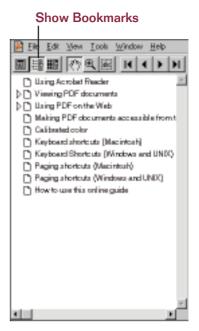
You can click on hot topics, which are usually underlined or displayed in a different color. To find out if a topic is hot, move your cursor over it. If the cursor turns into a pointing hand, the topic is hot—you can jump to it by clicking once.



You can also use the bookmark section on the left side of the screen to move quickly to the topic of your choice. You have to click the **Show Bookmarks** icon on the toolbar to see the bookmark section.

Not every manual has a bookmark section. Some manuals only have a table of contents, although you can also use this to navigate the manual if the topics are hot.

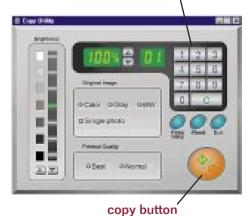
Finally, you can use the arrow buttons in the toolbar or the vertical scroll bar on the right side of the document to move through a manual. (The box to the left of the scroll bar displays the current page number.)



Using The Copy Utility

The EPSON Copy utility turns your scanner and printer into a photocopier. Follow these steps to use the utility:

- 1. Start the Copy utility. (See page 14 or 15 for details.)
- 2. Place your original on the document table of your scanner.
- 3. Choose the type of original image you want to scan. For example, click **B/W** if you are copying a black and white text document.
- 4. Use the online keypad to select the number of copies. You can use other controls to resize the image, adjust the brightness, or select the image quality.



keypad

- 5. Click the **Printer Setup** button to make sure your printer is set up properly.
- 6. Click the copy button.

Note:

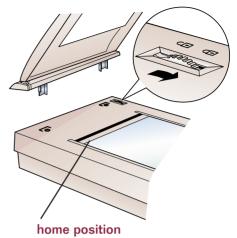
- ▶ The Windows NT version of EPSON Perfection 600 does not have a Copy utility.
- The Copy utility does not support the optional transparency unit.



TRANSPORTING THE SCANNER

When you transport the scanner a long distance or store it for an extended period, follow the steps below to secure the carriage.

- 1. Turn on the scanner and wait until the carriage moves to the home position. Then turn off the scanner.
- 2. Remove the document cover.
- 3. Turn the carriage lock to the locked position (toward the document table).



MAINTENANCE

To keep your scanner operating at its best, you should clean it periodically. Before cleaning, unplug the power cord.

Use a soft cloth to clean the outer case with mild detergent dissolved in water.

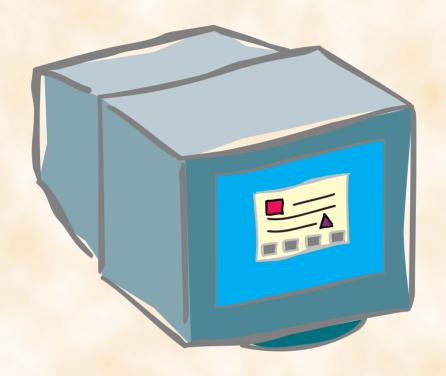
If the glass of the document table gets dirty, clean it with a soft, dry cloth. If the glass is stained with grease or other hard-to-remove material, use a small amount of glass cleaner on a soft cloth to remove it. Wipe off any remaining liquid with a dry cloth.

Be sure there's no dust on your document table. Dust can cause white spots to appear in your scanned image.



Caution:

- Never use a harsh or abrasive brush or cleaning product to clean the document table. A damaged glass surface can decrease the scanning quality.
- Never use alcohol, thinner, or corrosive solvent to clean the scanner. These chemicals can damage the scanner components as well as the case.
- Be careful not to spill liquid into the scanner mechanism or electronic components. This could permanently damage them.
- Don't spray lubricants inside the scanner.
- Never open the scanner case. If you think repairs or adjustments are necessary, consult your dealer or contact EPSON.



PUTTING IT ALL TOGETHER

Your EPSON Perfection 600 software lets you do great things with your scanner. This section gives you some ideas.

For complete information about how to use a host application, see that application's online help or user's guide.

YOU WANT TO EDIT A PRINTED DOCUMENT AND DISTRIBUTE IT ELECTRONICALLY

You have a page of text from a printed report that you want to distribute to several colleagues, but first you'd like to make a few changes to it. With your EPSON Perfection 600 scanner, you can create an OCR (Optical Character Recognition) image of the page that you can edit, then e-mail or fax electronically.

1. Start PaperPort.

If you're running Windows 95 or Windows NT, click **Start** and point to Programs. Then point to PaperPort and click the **PaperPort** icon.



If you're running Windows 3.1, open the PaperPort program window and double-click the **PaperPort** icon.

If you have a Macintosh, open the PaperPort folder and double-click the **PaperPort** icon.

- 2. Raise the document cover and place the document face down on the document table. Close the document cover.
- If you haven't already selected your scanner, choose Select Source from the File menu. Then select Perfection 600 (32 Bit) and click Select.

Note:

If you're running Windows 3.1, select **EPSON Perfection 600**. If you have a Macintosh, choose **Select Source** from the File menu. Make sure the **Perfection600** icon is highlighted, then click **OK**.

4. Click the **Scan** button, or choose **Acquire** from the File menu to open the scanner driver.

The EPSON Perfection 600 main window appears.

5. Choose 1 bit Line Art (OCR) as your Scan Type, and set the resolution to 300 dpi.

Note

- If you're running Windows 3.1, select **OCR** as your Image Type.
- Your OCR option doesn't support scanning resolutions greater than 600 dpi.



6. Click the **Prescan** button to show a preview of your scan in the Prescan area. Adjust the frame to select a portion of the document to scan, or enlarge the frame to fit the entire page. frame

Note:

With Windows 3.1. click the Preview

7. Click the **Scan** button. After scanning the image, close the EPSON Perfection 600 main window.

Note:

If you have a Macintosh, the driver window closes automatically.

The scanned image appears on PaperPort's desktop. Although it looks like text, you can't edit it because it is still an image.

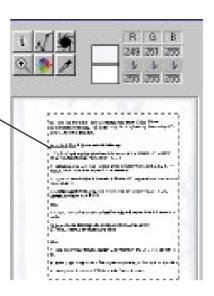
If you don't want to edit the page, you can fax or e-mail it at this point. Just drag the scanned image onto the icon for your fax or e-mail application on PaperPort's link bar. If you're sending it now, skip steps 8 through 10. Otherwise, continue with step 8.

8. Drag the scanned image onto your word processing icon on PaperPort's link bar.

This step converts the image to text. You'll briefly see the TextBridge dialog box while conversion is underway.

When conversion is complete, your word processing application opens, and the document is displayed.

- 9. Edit the document, then select **Save As** from the File menu to name and save it to your hard disk.
- 10. Open your fax or e-mail application. Follow your application's instructions to send the document.





YOU WANT TO PUT SCANNED IMAGES ON YOUR COMPANY'S WEB SITE

You'd like to enhance your company's Web site with some photographs of your product line. Now you can get those great photographs in your marketing brochures onto your Web site for everyone to see.

- 1. Set up a directory structure for your Web site on your hard disk. See PageMill's online manual for information. (PageMill is not available for Windows 3.1 users.)
- 2. Open a TWAIN-compliant application, such as PaperPort or PhotoDeluxe. (PageMill won't work, since it's not TWAIN-compliant.)
- 3. Follow the instructions under "Perform Your First Scan" on page 22 to scan the first photograph.



If you have several photographs or multiple images on a single page, you can scan them all at once using your scanner's batch scanning feature. Place the originals on the scanner's document table. Select Batch Mode in your scanner software, prescan your image, then highlight each image to be scanned with the selection tool. You can select different scanner settings for each image, if necessary. Click **Scan Batch** to automatically scan your images. This feature works only with programs that allow you to open multiple windows, such as PaperPort. (Batch scanning is not available with the Windows 3.1 scanner driver.)

- 4. Choose **Export** or **Save As** from your application's File menu to export your image as a BMP or PICT file to a folder on your hard disk. (You may want to put all your image files in a single folder within your Web site's local root folder.) See PageMill's online manual for information on image file formats and how they affect links to your Web page.
- 5. When you're ready to create your first Web page, follow the instructions in PageMill's online manual to add your scanned images to the page.
- 6. Continue to create new pages until you've completed your Web site. When you're ready, add links to your pages, then upload your pages to the Web server.



You can even use your scanned images as hot spots to link the pages on your Web site.

YOU WANT TO CREATE A GALLERY OF "ANTIQUE" PHOTOGRAPHS

You can use Adobe PhotoDeluxe to turn photographs you snapped yesterday into instant antiques.

- 1. Start PhotoDeluxe.
- 2. Place your photograph face-down on the scanner's document table.
- 3. Select your scanner software.

From PhotoDeluxe 2.0, click **Get Photo** and choose the Get Photo tab. Click the bottom half of the **Scanners** button and select **Perfection 600 (32 Bit)** as your input source.

From PhotoDeluxe 1.1, choose **Acquire** from the File menu, then choose **Select TWAIN Source**. Highlight **EPSON Perfection 600** and click **Select**.



Note:

- If you have a Macintosh, choose **Acquire** from the File menu, then choose **Perfection600**.
- 4. Open the scanner software. (If you have a Macintosh, skip this step.)

From PhotoDeluxe 2.0, click the top half of the **Scanners** button from the Get Photo tab.

From PhotoDeluxe 1.1, choose Acquire from the File menu, then choose **TWAIN**.

You see the EPSON Perfection 600 main window.

- 5. Follow the instructions under "Completing Your Scan" on page 24 to scan the photograph.
 - When you've finished scanning, your photo is automatically loaded into PhotoDeluxe.
- 6. Follow the instructions in your PhotoDeluxe online user's guide for adding old-fashioned special effects to your photographs.







PROBLEMS? NEED HELP?

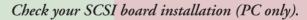
If you're having problems, this section answers some of the most common questions.



IF YOU CAN'T OPEN THE SCANNER DRIVER...

Check the cable connecting the scanner to the computer.

Make sure the scanner is correctly connected to the computer. Also, make sure the scanner's ready light is on. The scanner must be turned on before you start your computer. If necessary, turn on your scanner and restart your computer.



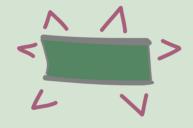
Make sure that the SCSI interface board is installed correctly in your computer. See page 8 for details.

Check that your system recognizes your scanner and SCSI board (PC only).

Check System Device Manager in the Windows Control Panel, or the Adaptec SCSI Interrogator if you're running Windows 3.1. For Windows NT 4.0, check the SCSI Adapters dialog in the Windows Control Panel. If your system isn't recognizing either the SCSI board or the scanner, go to page 41.

Check for conflicts in your SCSI ID setting, I/O address, the interrupt setting for your SCSI board, and other settings.

For information about the SCSI ID setting, see page 10. For information about choosing other settings, see your computer manual.



THE READY LIGHT DOESN'T COME ON...

Check the scanner power cord.

Make sure the power cord is securely plugged into the scanner and the power outlet, and that the scanner is turned on. Also, check that the power outlet is working. If you're using the optional transparency unit, make sure the power adapter is installed correctly.

If your system doesn't recognize the scanner or the SCSI board (PC only)...

Check the plug-and-play option

If you're running Windows 95, plug-and-play should be active.

If you're running Windows NT, plug-and-play should be disabled. (You can disable ISA plug-and-play from the Advanced Configuration Options menu in SCSISelect.)

If you're running Windows 3.1, run SCSISelect to disable plug-and-play.

Have you installed another SCSI device, such as a ZIP drive, after installing the scanner? (Windows 95 only)

If so, your device installation may have overwritten the SCSI driver (sparrow.mpd) with an older version of the driver. Copy sparrow.mpd from the Sparrow directory on your EPSON CD-ROM to the \windows\system\iosubsys subdirectory on your hard drive.

Run the Add New Hardware wizard (Windows 95)

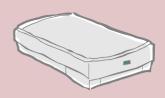
Follow the instructions on the screen. (It's best to accept the default settings.) When you're done, restart your computer.

Run SCSISelect

Your scanner comes with the 1505SELECT diskette, which contains SCSISelect, a special SCSI configuration utility for Windows 3.1, Windows 95, and Windows NT. Insert this diskette in your diskette drive and restart your computer, then follow the instructions on your screen.

If SCSISelect hangs or you get an error message, you have a hardware problem. Make sure your SCSI board is installed correctly. If the SCSI board is found, but not the scanner, you need to install a SCSI terminator. Also, check the SCSI cable connection and make sure the scanner is turned on. After checking your hardware, run SCSISelect again.

If you continue to have problems, your SCSI board may be defective.



IF THE SCANNER DOESN'T SCAN YOUR IMAGE...

Check your image source setting.

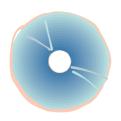
Make sure you selected the Perfection 600 as your source. See page 23 for details.

Make sure that the SCSI terminator is set up correctly.

See page 10 for details.

Run the scanner test (Windows 95 and 3.1 only).

Run the scanner test to make sure the scanner is communicating with your computer. (See "Test the Connection" on page 17.) If the test fails, check the items under "If You Can't Open the Scanner Driver..."



If the scanner software doesn't work properly...

Check your system requirements.

Check that the system requirements, such as the operating system version, are correct for your software.

Check your computer's memory.

See if the computer has enough memory for your software. If you're running other software at the same time, using RAM resident programs, or have many device drivers, the computer may not have enough memory. (See your software and computer manuals.)

Check your software installation.

Make sure that your software is correctly installed or set up. If all else fails, uninstall your software, then reinstall it.



IF THE FILE SIZE IS TOO BIG...

Adjust your scan settings.

Try setting a lower resolution (dpi), or scan only part of the image.



IF YOUR SCANNED IMAGE IS BLURRED OR DISTORTED...

Check the position and condition of your document.

Make sure the document is placed flat against the scanner's document table (the glass area). If only part of the image is blurred, part of your document may be wrinkled or warped.

problems





IF YOUR SCANNED IMAGE IS FAINT OR HAS GAPS...

Check the brightness.

Decrease the software or driver's brightness setting.

Check the condition of your original.

If the document is damaged, dirty, or wrinkled, these imperfections will show up in your scan.



If the edges of the document are not scanned...

Check the position of your source document.

Adjust your document's position so that the image is within the glass area.

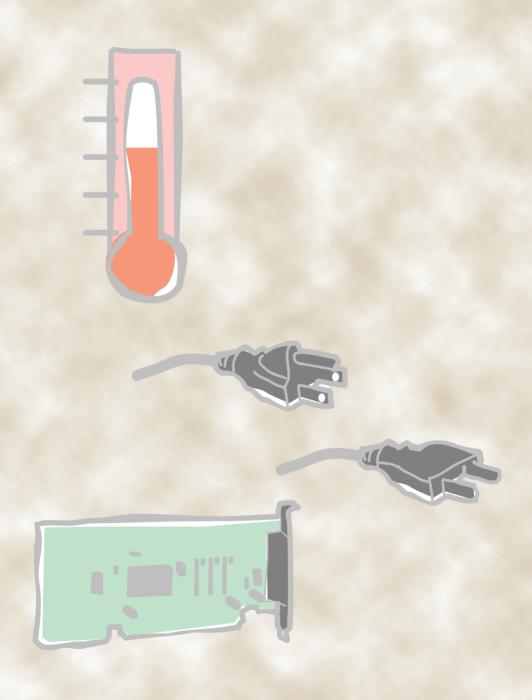


IF YOUR IMAGE SCANS AT AN ANGLE...

Check the position of your source document.

It may be placed at an angle on the document table. Align it so the horizontal and vertical edges are carefully aligned with the scales on the top and side of the document table.

scanning?



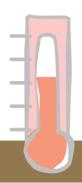
SPECIFICATIONS

SCANNER SPECIFICATIONS		
Scanner type:	Flatbed, color/monochrome	
Photoelectric device:	Color CCD line sensor	
Maximum document size:	8.5 inches by 14 inches (216 mm by 356 mm) US legal size	
Optical scanning resolution:	600 dpi (main scan); 1200 dpi (subscan)	
Output resolution:	25 to 2400 dpi interpolated (Win 95/NT/Mac) 1 to 4800 dpi interpolated (Win 3.1 only)	
Color separation:	Trilinear color CCD element	
Interface:	SCSI II	
Light source:	Cold cathode fluorescent lamp	
Data input/output:	Color: 30 bits internal 24 bits external Grayscale: 10 bits internal 8 bits external	
Brightness:*	-100 to 100	
Contrast:*	-100 to 100	
Color correction:	N/A	
Lamp:	Warm up time: 30 seconds at 77° F Auto switch off: 30 minutes	
Dimensions:	Width: 12.7 inches (322 mm) Depth: 21.7 inches (550 mm) Height: 5.1 inches (129 mm)	
Weight:	About 11.5 lb (5.2 kg)	

^{*} Processed by driver software



ELECTRICAL SPECIFICATIONS			
Power supply:	Main unit: internal universal power supply (switching type) Transparency unit: universal AC adapter power supply		
Rated voltage:	AC 100 V AC 240 V		
Input voltage range:	AC 90 to 132 V (at 100 V) AC 198 to 264 V (at 240 V)		
Rated current:	Main unit: 0.5 A at AC connector Transparency unit: 0.33 A at AC connector		
Rated frequency:	50 to 60 Hz		
Rated frequency range:	48 to 52 Hz (at 100 V) 58 to 62 Hz (at 240 V)		
Power consumption:	Operation: maximum 17.5 W (main unit) maximum 13 W (transparency unit) Standby: maximum 11.5 W (main unit) maximum 9.5 W (transparency unit)		
Insulation resistance:	10 MΩ between AC power line and chassis at 500 VDC		



ENVIRONMENTAL CONDITIONS

Temperature:	Operation:
	41° F to 95° F
	(5° C to 35° C

Storage: -13° F to 140° F (-25° C to 60° C)

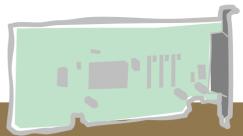
Humidity:

Operation:
10% to 80%,
without condensation

Storage: 10% to 85%, without condensation

Operating conditions: Ordinary office or home conditions.

Avoid extremely dusty conditions, direct sunlight, and strong light sources.



Interface type: ANSI X3T9.2/375D revision 10L standard Functions: The following functions are included: BUS FREE phase ARBITRATION phase SELECTION/RESELECTION phase COMMAND phase DATA phase Data in phase Data out phase STATUS phase MESSAGE phase MESSAGE IN phase MESSAGE OUT phase Electrical standard: As per ANSI X3T9.2/375D revision 10L

SCSI ID setting: Selectable from 0 to 7 with the rotary switch.

(Do not select 8 or 9.) Default setting is 5.

Connector type: Two 25-pin D-SUB connectors

SCSI SPECIFICATIONS

Terminator type: External 25-pin D-SUB passive terminator

SCSI connector pin assignments:			
Signal	I/O	Pin No.	Description
REQ	O	1	Request
MSG	O	2	Message
I/O	O	3	Input/Output
RST	I	4	Reset
ACK	I	5	Acknowledge
BSY	I/O	6	Busy
GND	_	7	Ground
DB0	I/O	8	Data Bus 0
GND	_	9	Ground
DB3	I/O	10	Data Bus 3
DB5	I/O	11	Data Bus 5
DB6	I/O	12	Data Bus 6
DB7	I/O	13	Data Bus 7
GND	_	14	Ground
C/D	O	15	Command/Data
GND	_	16	Ground
ATN	I	17	Attention
GND	_	18	Ground
SEL	I/O	19	Select
DBP	I/O	20	Data Bus P
DB1	I/O	21	Data Bus 1
DB2	I/O	22	Data Bus 2
DB4	I/O	23	Data Bus 4
GND	_	24	Ground
TERMPWR	_	25	Terminator Power

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